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FOUR FALLACIES IN MODERN SCIENTIFIC THINKING

by
E.G. Reed, BSRA

The following fallacies in modern scientific thinking: controls, averages, over-simplification, and reference, illustrate the vast area of superstitution and unrecognized ignorance that exists in science today, where near perfection is expected. There are so many errors in so-called scientific methods that two scientists when working from the same data seldom arrive at the same conclusions.

Despite working from the same information, one group, probably non-smokers, proved that cigarette smoking could cause cancer, while another group, likely cigarette addicts, proved that smoking does not contribute to cancer. Another instance of opposite conclusions, in the February Coronet magazine tells how one British doctor claims that high heels worn by women, throw the body weight on the heels instead of the toes, as has always been claimed, that high heels eliminate slouching, produce healthier breathing, add inches to the bust and give a look of slimness to the limbs - which causes another kind of look - by the male - which in turn gives the female a psychological boost. In direct opposition, an American doctor, writing in the Chicago Tribune, insists that high heels induce bow legs and knock knees and if man put such contraptions on animals, anti-cruelty leagues would have fits.

One group of scientists calculated that Sputnik number one would remain in space for a year and a few days later, another group, with equal confidence, determined that it would fall to earth in a week. Both calculations proved wrong. In the Newburgh-Kingston fluoridation controversy, one group of investigators concluded that fluoridation of drinking water decreased tooth decay by more than fifty per cent, while another group investigating the same cities, arrived at the conclusion that fluoridation increased tooth decay. In neither case did their conclusions correspond to laboratory experiments with animals and the fact that addition of fluorides to drinking water increased the number of dentists per thousand population, with effects not being the same on different people.

Inability to analyze and evaluate scientific data correctly is very serious. Scientific tests and investigations are only as good as the ability and honesty of those who make them. One is justified in doubting everything that has been proven by so-called scientific methods, particularly in advertising. This situation is further complicated by the fact that many accepted practices in science automatically lead to false conclusions. The following are typical:

FALLACY OF CONTROLS

In stating a natural law the expression, "Other things being equal," is often used when in fact other things are never equal. Since variables enter into most experimental work, attempts are made to overcome their effects by use of controls and increasing the number of observations. Controls are always questionable substitutes for direct measurement. To be of value, variables must be separated from constants, which very few scientists have the analytical ability to do. Controls, in most cases, like elastic tape measures, can be stretched to provide any conclusion. Through this fallacy, many effective and valuable contributions to science are discarded.

Experiments in the use of placebos clearly illustrate the fallacy of controls. Used as controls, placebos are usually made of inactive milk sugar, a capsule of starch or a shot of ineffective water. In one experiment, well established pain relieving medication was pitted against placebos, with the result that figures showed the placebos were as effective as the established pain relieving medication. If an unknown but effective medication had been used in the test, instead of the established one, the test figures would have indicated that it was not effective and a valuable contribution to medicine might have been discarded.

FALLACY OF AVERAGES

Even when averages are accurate, they are seldom more than averages. It is of little value to know that a certain treatment has cured a third of the number on which it was tried, killed another third and had no effect on the remaining third. Those considering using the treatment want to know, and rightly so, if they use it, which third they will be in. Almost universally the use of averages ignores the principle of individual variation, which is that no two objects or people are ever exactly alike in every respect. Although it may change the answer, accuracy of averages, the same as in controls, is not increased through increasing the number of observations.

Averaging many readings, regardless of their accuracy, tends to cover critical points, which often are the basis for important basic discoveries. Critical points are what trained inventors look for when faced with what appears to be impossible problems.

FALLACY OF OVER-SIMPLIFICATION

Over-simplification is most serious in the field of scientific testing. In attempts to provide simple inexpensive tests essential phenomena are often ignored. Things ignored may actually be of such importance as to cause the simplified tests to lead to false conclusions. Many laboratory tests attempt to accomplish in a short time

effects which normally are caused by use over a period of years. For example, in the case of the ADX2 battery additive, which cost Mr. Ritchie, the inventor, eight years and a half-million dollars and involved three government agencies with great cost to the tax-payers, before he obtained permission to advertise and sell his additive. The difficulty lay in the fact that government tests were over-simplified and did not correspond to actual use.

FALLACY OF REFERENCE

Using reference to establish proof of a theory involves two fallacies. In most cases, references are lifted out of content from descriptions of experiments in fields of research, foreign to the one in which they are used as reference. Statements made in the reference might be true from the standpoint of the purpose for which it was written but completely false in respect to other viewpoints.

The second error originates in the axiom, "The whole of a thing is equal to the sum of its parts," which falsely assumes that the relation of parts of a thing can always be expressed in terms of addition. The relationship of the parts of a living organism is far too complicated to be described in terms of simple addition. A human being cannot be taken apart and put together like a jig-saw puzzle. The sum-total of independent experiments do not necessarily add up to a true conclusion. Interrelationship of parts must always be considered.

Organized science hides its dictatorship behind its many fallacies. Very little of what is now accepted or called axiomatic will stand the test of time. These are serious times, when we cannot afford to make mistakes. These are only four of the fallacies of modern scientific thinking. There is need for all of the bad practises of organized science to be compiled and the list made available at all levels of education.

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The four fallacies in modern scientific thinking, are a condensed version of a part of the book manuscript, "Developing Creative Talent," by E.G. Reed, Director of Research, Originality House, Inc. Akron, Ohio.

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SPECIAL NOTICE: Due to the cost of supplies and clerical help the price of single copies of Round Robin has been increased to 85¢ per copy. Back issues of Round Robin, 2 months or more old, will be available to BSR Associates only, at the former reduced price of 50¢ per copy, to all others the price will be 85¢ per copy, except when we are offering special numbers at special reduced prices.

BLUNTLY SPEAKING

by
Gaston Burridge

Man has originated very few basics. But he has often stuck his thumb into Nature's Christmas pie and pulled out many a plum. Then, looking these plums over, he has commented, "What a bright boy am I!"

Frequently, some among us, with that quick eye for Nature's ways, and mathematics sufficient to add two and two, have noticed phenomena quite outside our own regular routes of interest. Somehow, we seemed to know these were a valid application for another's field. Because we possessed a modicum of brotherly love along with a dislike to see effort unnecessarily expended, we offer our observations to those other fields for whatever they may be worth. Such is the case of Dr. H.H. Nininger, a meteoriteist of world recognition, and his attempt to place before ballistic and missile designers certain observations he had made relative to the "noses," or forward ends of oriented meteorites.

Was Dr. Nininger successful? Well, an inspection of the newest U.S. missiles, the Thor, Atlas, and Titan will show a hemispherical shape too remarkably close to the one Dr. Nininger advocated more than twenty years ago to be a happenstance. But Nininger has received no credit for it- and the man who "invented" it in the early 1950's got the Distinguished Service Cross from our Government for his work!

This is going to be a strange story. I think it has a message which may show us "the state of the Union." It may be one we will wish to ponder.

More than thirty years ago, Dr. Nininger noted that oriented meteorites, as they dashed through our atmosphere, assumed a definite hemispherical contour at their forward ends, or noses. This shape was formed with diligence as the meteorites hurtled toward Earth at speeds of 18 to 25 miles per second! High friction develops between the meteorite and our atmosphere. It heats the forward material to incandescence, milting it away rapidly. However, this heat does not penetrate the body-material deeply. As the hemispherical contour becomes the dominating shape, it maintains with a minimum of change and transfer of solid material to liquid or gaseous states.

Dr. Niniger reasoned, "If this hemispherical shape is the one assumed by fast falling objects through our atmosphere, then contrawise, such a shape is the one for our missile noses which must ascend into space through the same atmosphere."

Nininger first published an outline of this thinking in the August-September 1935 issue of Popular Astronomy, Vol. XLIII, #7. The article was titled, "The Lafayette Meteorite." Of course, at that time, Nininger's idea was not applied to missiles, for they were hardly developed to the point where such information was important. However, Nininger was then thinking of high speed ballistics to which the idea equally applies.

Again in August of 1940, also in Popular Astronomy, Vol. XLVIII, #7, an article, "Some Practical Aspects of Meteorites," by Nininger, set forth twelve practical aspects. Number nine reads as follows: "The science of ballistics will need more and more to study the forms and markings of meteorites as the velocities attempted by ballistic engineers approach those of invaders from space."

From this, there seems little doubt of Nininger's priority to the blunt nose idea, as proper for anything travelling at high speeds through our atmosphere.

In July of 1942, Dr. Nininger wrote to Dr. Richard C. Tolman, Vice Chairman of the U.S. National Defense Research Committee, Office of Scientific Research and Development. With this letter was enclosed a monograph titled, "Facts From the Study of Meteorites Which Should Have an Important Bearing on Ballistics." The letter and monograph were acknowledged August 7,1942, by L.H. Adams of that group.

The monograph's third paragraph reads - "These meteorites(referring to oriented meteorites) have been irregular in form at the time they were set free from the parent mass. Yet strangely enough, each of those which maintains an oriented flight acquires on its forward end or side, a form which is closely similar in at least 90% of the cases. This form closely approximates a hemisphere, and is not cone-shaped as much of the literature on meteorites would lead one to believe. My statements are based upon my personal scrutiny of nearly eight thousand specimens of fresh meteorites which had been collected before terrestrial weathering had modified them."

In my files are copies of twelve letters between Dr. Nininger and various U.S. Government Agencies, or men of Science representing those Agencies. These letters date from May 1942 on. There is no question in my mind but that these letters clearly attest to Dr. Nininger's diligent effort to present the idea of the blunt nose to those he felt - and those to whom he was directed by others - could properly use or funnel such information to advantage. This correspondence also clearly indicates Nininger presented this information with no strings attached whatever. Nor did he seek anything for himself from it. But even so, the idea apparently had no takers. In fact, several took the opportunity to point out to Nininger where he was wrong!

And thus the matter rested until July 26, 1952. On that date the magazine Science News Letter published a cover photo and an article regarding a newly developed "needle-nosed missile" developed by Ames Aeronautical Laboratories, Moffett Field, California. Believing firmly that the needle nose was the wrong approach to high speed in our atmosphere, Dr. Nininger wrote Ames Laboratories, sending them photos and sketches which corroborated his blunt nose, or hemispherical nose contour. The correspondence between Ames and Nininger was very technical, but it amounted to Ames expressing the opinion that Nininger's blunt nose idea was of no value what-so-ever!

Thus can be imagined what a strange mixture of surprise and belated satisfaction came to Dr. Nininger as he read the June first issue of Science News Letter for 1957. An article therein was regarding the recent adoption of the blunt nose for our newest high velocity missiles!

Reading further, Dr. Nininger learned this new nose contour had been developed at Ames Aeronautical Laboratories, Moffett Field, California! Its developer was Dr. H. Julian Allen. And Dr. Allen had received the Distinguished Service Cross from our Government for his accomplishment!

Dr. Nininger wrote Ames Laboratories again, pointing out his correspondence with them in 1952 relative to the blunt nose matter. In reply, Ames acknowledged fully the correspondence, but said at the time Dr. Nininger wrote presenting his ideas, Dr. Allen was already at work on the blunt nose idea - in fact, had completed his mathematical computations of it and was ready to embark upon a series of visits to other research institutions to give them his results. But because the matter was then so highly secret and "classified," they at Ames could do nothing then but say to Nininger that his ideas were of no value whatever!

But mark you this - Dr. Nininger was <u>not</u> listed among the many others credited to the development of the blunt nose in <u>any</u> way - then or since!

I heard of this matter in mid July, 1957, and began"digging"into it. This digging included rather extensive correspondence with the National Advisory Committee for Aeronautics, spokesmen for Ames Aeronautical Laboratories. This committee appears to entirely disregard <u>all</u> Dr. Nininger's published works pertaining to these matters. They also seem uninterested in even trying to locate the correspondence between Dr. Nininger and Dr. Tolman in 1942. They appear to feel the blunt nose idea was entirely Dr. Allen's invention and development, and that Dr. Nininger had nothing whatever to do with it, despite the array of facts given above!

Not feeling this way about the matter, I contacted the West Coast representative of the magazine, "Missiles and Rockets." Placing the entire situation before him, both in a letter and over the telephone, I asked if he thought his magazine would be interested in trying to keep the "history" of the blunt nose as straight as possible. He told me he thought so! But before he could give me the go-ahead on the story he said he would have to check with the magagine's head office in Wahington. Two weeks later I was advised the story had been killed there!

Dr. Nininger is a fellow in the American Association for the Advancement of Science. I am a member. I wrote the editor of "Science" the Association's Journal, putting forward the facts of this matter as I have found them, and as they are written here. After considerable time, I heard from that editor. He felt the matter was too controversial for his magazine.

There can be little question of the difference between an idea and the successful application of that idea. No one will deny Dr. Allen's successful application of the blunt nose principle. However, unless it can be shown (and it has not been so far - or even attempted) by some published material prior to Dr. Nininger's 1942 monograph and letter, it would seem to me the blunt nose idea should be credited to Dr. Nininger. If Dr. Allen was awarded the Distinguished Service Cross for the application alone of the blunt nose principle, then it would appear little question could be raised. But this is not indicated to be the case. If the award has anything to do with the origin of the idea, then I feel Dr. Nininger is due to a generous portion of credit also.

Dr. Nininger is Director of the American Meteorite Museum, Sedona, Arizona. He has been in educational and research work for more than forty years. He has written some 125 articles on varying phases of meteorites, and his collection of these sky visitors is the largest private collection in the world. Nininger is among the earth's greatest authorities on meteorites, and he has authored several books on the subject.

I am quite inclined to ask, "What is the state of the Union?" Because, in this case, the Union and Science are closely tied together. Each may point their finger at the other, but neither can deny their responsibility - a responsibility each has been made aware of - and neither has yet seen fit to meet.

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"FLYING SAUCER PILGRIMAGE": by Helen & Bryant. Private Research and Travel; Illustrated, 304 pages. Amherst Press, Amherst, Wisc., 1957, price $3.50 This is highly recomended to all BSR members. Order from BSR Hdqrs., 3524 Adams Ave., San Diego 16, California

ON HOW TO MAKE THE "4-D" HYPOTHESIS WORKABLE

By BSR Assoc. "Lindy Millard"

My article, "'Prana' and Sub-Atomic Energy-Converters", which appeared in R.R. XII-5 (Jan.-Feb. '57), laid the foundation for an understanding of its Sequel, which now follows.

The "Law of Octaves" used by Walter Russel of Swannanoa, Waynesboro, Va., does not have n/7 as the value of p in the frequency formula $f = 2^{-p} f^*$ but has for p the value n/8 instead. The formula for the vibratory period (the time-lapse of each cycle) is therefore

$$T_o = 2^{n/8} T^* \quad \ldots\ldots\ldots\ldots\ldots\ldots (1)$$

where T^* is the reciprocal of the highest possible frequency of Prana, namely f^*, and T_o is the period for the n-th tone of the gamut. Russel's nine-octave cycle of chemical elements is so completely different from the valid system worked out by C. F. Krafft, that the former cannot be honored here.

Another frequency-dependent system quite different from that of Russel will be set forth. This assumes that Prana has only one primary period T^* and that there exist hosts of different hollow resonators, each with only one orifice or with two antipodal orifices (although less suitable shapes may also exist). Their cavity capacities can respond resonantly to pressure-fluctuations of period T^* in accordance with the Law of Odd Multiples:

$$T_r = (1 \text{ plus } 2n)\, T^* \quad \ldots\ldots\ldots\ldots\ldots (2)$$

If we put n equal to 0, 1, 2, 3, successively, then we obtain from Law (2) these magnitudes for the coefficient of T^*; 1, 3, 5, 7, respectively -- (all odd numbers).

As regards the efficacy of Law (2), it should be pointed out that the Prana waves which energize the resonators cannot be classed as transverse optical waves ("electromagnetic" in character), because, as I have assumed, the effective Prana waves are pressure-fluctuations that are propagated longitudinally. As received at a resonator's orifice, they have the period T^*, but the volumetric capacity of that resonator might happen to be such that its own period of resonant response may be any odd-integer multiple of T^*. Hence Law (2). The intensity of response at the orifice is of course proportional to the reciprocal of that multiple, so that very little output could be expected from the largest resonators -- unless these large resonators could borrow their input intensity from the outputs of other resonators of intermediate

size. We may consider c^* to be Prana's propagation speed, with many times the value associated with electromagnetic light.

At the close of the other article I had prematurely exclaimed: "The only way to reconcile the two laws with each other, is to abandon Einstein's dogma about the speed of light ....!" This claim was not justified, even though it is not conclusively established that the Cosmos contains nothing that is faster than the propagation speed of electromagnetic waves. I have closely examined in logic and mathematics all conceivable schemes for the purpose of reconciling "law" (1) to Law (2) for all values of n, but with no success at all. This is because our resonators respond to periods of fluctuating pressure, not to work, wavelength, or any other alternative wave property, and because when wave-forms are propagated -- even from one medium into a different medium -- the wave-periods remain unaltered; the periods are physical "invariants" -- quantities which cannot vary.

The only period alteration that could occur is a change in the oscillatory period of the wave-generator (whatever that might be), but once a wave-form has been taken from the oscillator by the medium, it is too late to give it a new period value. A change in the characteristics of the generator always determines the features of some wave-disturbance yet to be imparted to the medium. But after the wave-form has entered the medium, the generator has relinquished all control over it during the time it has started generating a new wave.

The cincept of "matter-octaves" may be a time-honored dogma, but it is fallacious, because its meaning contains an equation like (1). We shall therefore retain equation (2) as the valid law. The agents for the conversion of wave-energy into matter-energy must be the resonators, which depend on Law (2) for their performance.

We may use the space-fluid model proposed by Hermann Fricke (1876 - 1949) which I have already set forth in other articles. The Fricke theory makes possible an explanation not only of pressure in the space-fluid, but also the primeval origin of the resonators whose input energy results from fluctuations in that pressure. The highest frequency thereof is f^*, prppagated in the longitudinal mode at velocity c^* by this space-fluid. All lower frequencies (and longer wave-periods) must result from the output pulsations that are contributed by different cavity capacities, which are capable of energizing larger resonators, in cascade fashion. Here we have the scientific basis for the doctrine as to the many different frequency-channels of palpability, only one of which can affect a given atom of matter, depending on which speed of flow holds for the specialized modes of motion which constitute its existential groundwork. The most suitable atom-model for this purpose is that proposed by C. F. Krafft, which model was in fact a result of applying Fricke's fluidistic energy-concepts to the problems of chemistry and metallurgy in a strictly

qualitative way. Krafft explains the eon-long existence of the atoms by assuming sheer rotary momentum in every flow-circuit of its essential structure, although the space-fluid itself possásses a conditional type of viscidity. The model of the atom at such a stage of hypothecational completion would, however, prove to be incomplete so far as the requirements of "mat" and "demat" of the "4-D" Hypothesis of the UFO are concerned. Let us see what is involved here.

As to the in situ translation of matter from one palpability-channel (or "plane") to another, we know that the process is reversible. With it most BSRA members associate the nuomena of intelligent volition. Yet we are aware that the circulatory periods of Krafft's atom must be inscrutably short, corresponding to frequencies well up into the hard-gamma range. There must be some intermediate agency between the two functional ranges which we have not yet discussed, if we have been able to predict its details at all. I believe that the organ of sentience and intelligent computation on the one hand, and the machine of quasi-dead existence (the atom) on the other hand, do possess some structural or functional feature in common, something unknown in one being very much like the something unknown within the other. What could this be? Perhaps a highly organized constellation of resonators is the answer. Various forms of this may be useful as models of Scientology's "thetan" (spirit-spark?), of Huna's "nature-spirit" entities, of the versatile Intelligences within the UFO able to monitor the very atoms of its metallic hull, and what have you. What think ye? ??

"APOLLONIUS OF TYANA": Fragments from the life of the Illumined One, Apollonius of Tyana as taken from the Akashic Records by Philo and Celeste, recorded by Alice Winston. 124 pages, Vantage Press Inc., 1954. Order from BSR Hdqrs., price $2.00

"HOW TO COMBAT PSYCHIC ATTACK": a pocket-size brochure, 40 pgs., by E. Nassau, Box 1612, Prescott, Ariz. Much needed common sense advice on an important subject. Price $1.00

"DREAMS DO COME TRUE" by Marguerite Haymes, Highland Press, Culver City, California, copyright 1950. 62 pages. (Suggestions for those who want to make their dreams come true). $.50

"IS CANCER CURABLE?": by William Kullgren, 96 pages, copyright 1954, printed in U. S. A. Price $1.00

Please order all of the above books directly from BSRA Headquarters, 3524 Adams Ave., San Diego 16, California.

"NOTES ON THE PLACE OF ATLANTIS IN WORLD EVOLUTION"

CHARLES J. RYAN, M.A.

(The following excerpts are from a 25 page printed brochure issued by the Theosophical University Press in 1944. The author was Professor of Astronomy, and also known as an artist of distinction. Professor Ryan contributed a number of excellent articles to the B.S.R.A. publications, often on recondite problems such as the present one on Atlantis. His death occurred in December of 1949).

The story of Atlantis is treated in rather a fragmentary way in all the ancient writings where it is mentioned, including the Greek, Hebrew, Mesopotamian, and even the Hindu where the largest amount of information is given. No complete history is available, but H.P. Blavatsky's The Secret Doctrine and Isis Unveiled, combined with her other articles on the subject, The Esoteric Tradition and some published lectures of significance by G. de Purucker, and parts of The Mahatma Letters to A.P. Sinnett, provide most of the authentic information we have from Theosophical sources. Sinnett's Esoteric Buddhism was the first attempt to make a definite outline of the place of Atlantis in human history, but although he derived his information from the Masters of Wisdom, his presentation was very slight and incomplete.

Even without the occult evidence there exists information derived not only form taraditions handed down in available writings but from the study of present day terrestrial conditions which cannot be brushed aside. As in other cases, a multiplicity of facts which point in one direction carry a conviction which might be explained away if their number were less; and we must always bear in mind that many ancient traditions of vanished cities and kingdoms, regarded by modern scholars as purely imaginary, have been completely verified by recent excavations. We need only recall the astonishment that was aroused by the great discoveries in Troy, Pompeii and Crete, in Central Asis and North-Western India, in America and elsewhere.

Among the most convincing tangible evidence for a lost territory in the Atlantic is the great range of submarine mountains stretching for thousands of miles under that ocean and rising nine thousand feet above its bed. In the Azores, Ascension, etc., they penetrate the surface to great heights. They are volcanic, and geologists say that the nature of the lava dredged up shows that it was not crystalized under water. The range appears to have been the backbone of the old continent which entirely or partly joined some of the territories of the Eastern and Western Hemispheres;

and a small area called the Dolphin Ridge was possibly the island mentioned by Plato.

Another recently discovered geographical world-feature of great interest in connexion with drowned civilizations is the series of 'continental shelves' or land surfaces covered by shallow water, which run out to great distances from the shores of many oceans. Cutting through these submerged areas long and deep valleys have been found, many of them being in a line with present-day rivers. For instance, a submarine extension of the Hudson River has been traced for at least 130 miles south-east from Sandy Hook. The most reasonable explanation of these world-wide formations is that they are the remains of ancient rivers traversing the continental shelves before the latter were submerged. The shelves may have been drowned when the vast area of ice melted at the close of the last Glacial Period. There would be plenty of room on those territories for many civilized peoples, and the most probable date, according to the geological evidence gained by a study of the material dredged from the underwater canyons, agrees very well with the period of the breakup of Atlantis. (Professor Joly's theory of the rise and fall of continents by the action of radio-activity in the underlying strata, which has been well received by geologists, would also help to explain the submersion of the continental shelves and the river valleys.)

Though the occult impulses mentioned by H.P. Blavatsky are of primary importance, according to an archaic 'Commentary' often quoted in the Secret Doctrine, two main factors are the outward and visible causes of the great terrestrial cataclysms which bring about readjustments of the crust of the earth. (One is a tilting of the axis from its normal position, at times even a complete inversion. This would make changes in climates, ocean currents, winds, the tides, and the rainfall would be strongly affected. The second factor is a variation in the speed of the earth's rotation on its axis. If it slowed down, the 'centrifugal force' would be reduced and the ocean waters in the equatorial regions would be lowered allowing new lands to appear above the surface. At the same time lands in the more northerly and southerly latitudes would be submerged. When the rotation assumed its original velocity conditions would become as before, allowing for permanent changes produced by minor consequences of the movement.)

Though astronomy has no definite evidence that the earth's axial inclination has ever changed more than a few degrees it cannot deny the possibility of an inversion. It is curious that all the planets are inclined at different angles. The slowing-down effect on the equatorial protuberance (specially affecting the water) has been considered by scientists, and lately the suggestion was made that it would provide at least a partial explanation of the drowned river valleys or canyons in the continental shelf already mentioned.)

Most savages have traditions of a Golden Age, and their degeneration from higher conditions is obvious. 'Primitive' tribes in Africa, Australia, etc., use highly complicated languages containing words and ideas foreign to their simple mentality, and "for which there is no longer place in their actual life," as Lord Raglan says. Some, such as the Australian Arunta, preserve philosophical and religious ideas which they would be quite unable to originate today.

The same thing has occurred in regard to magical arts. Andrew Lang in his valuable work on occult folklore, Cock Lane and Common Sense, pointed out to the determined skeptics of the nineteenth century who insisted that all psychic and magical phenomena among savages were pure fakery, that the identity of such things in all parts of the world among peoples who had no communication with each other was good evidence in support of their genuineness. Theosophy traces the more or less objectionable occult practices still to be found today to the far more powerful and dangerous black magic which largely hastened the downfall of the later Atlanteans. The long period of barbarism after the fall of Atlantis which was referred to on a preceeding page is undoubtedly traceable to the Atlantean misuse of occult powers.

In regard to the world scheme of evolution it is not necessary for our present purpose to consider anything earlier than the present Fourth Round, mentioned above. The First Root-Race of that Round began under very different conditions from those of later periods, and if we could look back at ourselves in the First or even the Second Root-Races we should not recognise any likeness. A kind of Golden Age prevailed; consciousness was intuitive and instinctive rather than intellectual; the body was composed of highly ethereal substance, shadowy and almost shapeless. As the ages passed and the Third Root-Race developed out of the Second, Nature's work largely consisted in a very slow condensation of the ethereal or 'astral' form into more and more solid substance and more definitely human shape. -The next stage was the definite separation of the sexes into male and female, symbolized in Genesis by the creation of woman from Adam's rib.- This was followed or accompanied by the awakening of the Mind, its 'descent' into man, referred to in the allegorical story of Genesis as the eating of the fruit of the Tree of Knowledge. All previous development was preparatory for this great event, but many ages apssed before Mind became dominant and self-conscious intelligence became the chief characteristic of the complete man. Alfred Russel Wallace, co-discoverer with Darwin of 'Natural Selection' and a thorough evolutionist, had a true inspiration when he said that when - "man's material organism had reached the required degree of perfection, there occurred the spiritual influx which alone enabled him to begin that course of intellectual and moral development...." - Wallace was far ahead of his colleague in this concept which is quite Theosophical so far as it goes.

ANTIGRAVITIC POSSIBILITIES OF SUPERMATTER

by C. F. Krafft, BSRA

The use of "supermatter" (a condensed form of gaseous ionized matter) for spaceship propulsion has been recently suggested. Its disintegration would liberate large numbers of positive ions which would not only give the entire spaceship a positive charge, but would also propel the spaceship by repulsion from the liberated ions if they are all sent out in one direction.

Such a positively charged spaceship would also have an anti-gravitic action by virtue of the Biefeld-Brown effect, which is the tendency of a charged condenser to move in the direction of the positive charge. This is not a theory but an experimentally established fact. It can be explained on the basis of the ether vortex concept because in a charged condenser, just as in a hydrogen atom, there is a direct flow of ether from the positive charge to the negative charge. This necessarily reduces the ether pressure on the outer side of the positive charge and increases it on the outer side of the negative charge. If we accept the modern view that the force of gravity is caused by a pressure gradient in the ether, then such a difference of pressure on opposite sides of a charged condenser would force the condenser in the direction of the positive charge.

A positively charged spaceship in conjunction with the earth, would constitute such a condenser. Although the earth is always at zero potential, it would be negative relative to the spaceship. The ether would therefore flow directly from the spaceship to the earth, and this would reduce the ether pressure on the upper side of the spaceship. Such a reduction of ether pressure immediately above the spaceship would result in a lifting force in direct opposition to the downward pull of gravity. By controlling the intensity of the electrostatic charge, it should be possible either to keep the spaceship hovering in mid-air, or to move it vertically upwards.

If gravitational forces can be overcome in this manner, then inertial forces would probably also be affected. In the ususal methods of propulsion the driving force is applied mechanically at only one place. This produces an undesireable inertial reaction upon the pilot and would instantly kill any human pilot if the acceleration is such as has frequently been observed in the movements of flying saucers. With electrostatic propulsion of the kind suggested above, the driving force is not applied mechanically but electrostatically to the spaceship and pilot alike. The pilot would therefore move along with the spaceship without experiencing any serious inertial reaction.

This scheme has also another interesting possibility. A person could wear next to his body a metallic belt containing a supply of

supermatter undergoing gradual disintegration so as to keep his entire body positively charged. His body in conjunction with the earth would then constitute an electric condenser and would be subject to the Biefeld-Brown effect so as to relieve him of at least a portion of his weight.

(From "Pendulum" A Monthly Digest of Radiesthesia, Markham House Press Ltd., London, Volume 8, No. 2. November, 1957)

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SPECIAL PRICE ON CERTAIN BACK ISSUES OF ROUND ROBIN

We have on hand a larger than usual supply of Round Robin XII -5 XIII -1, XIII -2, XIII -3, which we will be happy to send to any of your friends who might be interested in thus being introduced to Round Robin, if you will send us their names and addresses and $.20 each, or $.50 for 3, to cover the cost of postage, envelopes, and handling. For your convenience in ordering we list below the tables of contents of these four issues. This offer is also available to anyone who might want these back issues of Round Robin for their own files, or for any other reason. Material published in Round Robin is not the kind which becomes "dated".

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This offer will be in effect as long as the over supply of these four numbers lasts.

"Inquiry From Alaska"

Meade Layne, Director,
B. S. R. A.,
3524 Adams Ave.,
San Diego 16, Calif.

Dear Mr. Layne:

I am making a study of the Human Aura and would like to contact people who are able to see the aura. It would help immensely if you could publish this request in one of your publications, so those who see the aura could send me the following information:

1) Describe the general appearance of the aura as you see it.

2) Do you see the aura only on humans?

3) Do you see colors in the aura? If so, what interpretations do you ascribe to the different colors?

4) Under what conditions do you see the aura? What conditions are the best?

5) Do you see other things beside the aura that are not normally visible to others?

Thank you very much.

Sincerely,

Louis C. Vacca
Route 1, Box 114
Ketchikan, Alaska

- -

We hope that the foregoing request will be taken most seriously by our readers. It concerns a series of observations recently reported from Alaska, of an unusual nature and possible importance. If you write to Mr. Louis C. Vacca about this, please do so promptly.

M. L.

- -

"T of 4 - 17" has just been reprinted by popular request, and is now ready for distribution. Transcript (by tape recording) of meeting held April 17, 1954. Important, and released to BSR Associates only. Please designate as "T of 4 - 17", price $1.00

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etheric states that the Earth people have been taken note of, for all to come and see! Some of them act as if they had never known of Earth before; some of them have not. The Etheric plane of your own Earth has long been aware of Earth people, but not so with all the other etherics."

(M.L.: Is there something of cosmic interest going to happen here?)

YADA DI SHI'ITE: "Yes, -- but let us consider this: soon your Earth people will be able to make a flight -- (Question) Not necessarily to Mars, but beyond that. And they are being given the opportunity soon to understand the law of aero-dynamics."

(M.L.: We have heard reports of what appeared to be fighting among the discs themselves -- is there anything to this?)

"I had not heard of that. There is always a possibility that Etherians from other worlds may want to learn something from other Etherian regions whose inhabitants may not care for them to do so. Remember, all life is strife. We have often mentioned that: down to the smallest atom there is struggle going on. It is that struggle that builds and destroys -- but neither builds nor destroys."

(G.P.: Can these Etherians use their craft destructively as we do?)

"Yes, and much more effectively."

(G.P.: Do the Etherians have the same wish for power that we do?)

"No -- their aim is to aid man to a better understanding of the laws of flight, the laws of light, the laws of motion."

(G.P.: We can wipe out a half-million people at one lick, seeing it as legitimate because we think it is for the world's good to do so -- is the objective of the Etherians the same?)

"My friend, they do not have to use craft -- they would only have to start a demagnetizing of your world. They could cause it to fall apart, completely crumble and disintegrate."

(G.P.: Would this be in accordance with the Cosmic Plan?)

"There are certain forces -- groups -- that have governance over each heavenly body -- and if directions are given to do a certain thing, it is done."

(M.L.: The hierarchiaal theory of governance of the Cosmos is sound, then?)
"Yes, It is exceedingly sound."

"Excerpts From The Seances"

(Deep trance mediumship of Mark Probert)

7 people present. Control: YADA DI SHI'ITE:

"I want to talk for a moment on what you people call the little phenomena — or 'discs' — in the air, and the 'little people' in them."

(M.L.: Yes, will you tell us whether this is their natural size, or have they decreased their size for some special purpose?)

"These people arrange their size for the work they are to do. Men on the E arth plane will have to get over the idea that matter is not capable of being manipulated by mind. A body is what a body thinks."

(M.L.: There is a teaching that the Venusians — either of that planet or Venus-Etheria — are of small stature; is that true?)

"It is, but not as you suppose. On the planet Venus there is not a great civilization composed of 'midgets', as you would say, or little people. Size — to use your term — according to the necessity is expanded or contracted."

(M.L.: But the Venusian people have a more or less uniform size?)

"Yes, more or less; but I do not think that they are smaller than your people on Earth. How is a person small unless you have someone big to compare him with? You have lettle people — 'dwarfs' — on your plane. And I believe your radar has picked up 'points' on its screen too small to be seen — the unseen being picked up by the unseen. Many of these 'discs' can only be seen with such a device.

"These 'flying discs' come from the etheric body of all the planets. The etheric body may not be 'substantial' as you would say on Earth, but a civilization may exist there."

(M.L.: Does the disc type of skycraft originate in any one particular area of the Etheric?)

"Yes, you may remember we spoke of the discs resembling Venus, the physical planet which you see? The outer rim spins around the stationary body. It is a conforming with Nature."

(M.L.: But these skycraft have been seen in many shapes and sizes. We understood that the disc type came from Venus-Etheria.)

"Yes, I will tell you something else: since these sky phenomena have been taking place, word has gone out to all of the different

(M.L.: What is all this Etherian activity in connection with our Earth tending towards?)

"It is tending toward the education of the Earth people. The first thing they are trying to teach you is not to be afraid. These Etherians have no desire to harm the Earth inhabitants. They have no desire to cause panic, for they know that if panic broke loose, men would kill each other in fighting for the available holes in the ground in which to hide."

(M.L.: But all these queer shapes of the skycraft -- cones, globes, cigar-shaped, birds -- I even remember a 'flying pig' over South Carolina ----)

YADA: "Did you hear it grunt? No -- but all these forms -- what is form? What is shape? These are devices to make people think. A flying pig might be useful because it would be strange and would make people think about it longer."

(G.P.: Would the destruction of the Earth affect Etheric regions?

"Yes, because there would have to be a rearrangement of conditions in the work of those who are concerned with the physical world. But let me tell you, no such thing is about to take place. Man has only scratched the surface of your Earth-plane. I think it is -- though you did not mean it to be -- a somewhat conceited idea that man can destroy the Earth. Some part of it can be destroyed -- yes. Great parts have been destroyed in the past -- but your Earth has, I might say, become accustomed to these great disasters.

'Yes, persons living in what you call the physical body have been taken into the etheric plane. The body does not then 'die', but is 're-vibrated'. Those so taken were ready to be taken. Also there have been instances like that of a big ship from which all the people were removed, though all is left in order* -- or a great caravan disappears. Sometimes, later, an image of the caravan with its people and animals is shown, to arouse curiosity so that you will try to learn about such things. But people are afraid, or soon forget. Yes, a person whose body has been revibrated can return to your plane and remember his experience, but he is too wise to speak of it. People taken in this way are often returned to earth if they can be trained to help and teach. There is much we could tell of Adepts and illumined ones in the regard, but we speak under orders and cannot always say all that we would'.

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*The 'ship' is presumably the Marie Celeste. ** Charles Fort wrote: "I think we are hunted for." Many mysterious disappearances may here be accounted for as etheric 'kidnappings'... Recall the disappearance of a freight train (some 40 years ago)... BSR Associates will recognize that while these facts should be known and reckoned with, they should not be sensationalized or too widely disseminated in the present state of increasing public concern over the etheric phenomena. ML

DOWSING OF STRAIGHT - LINE FORCES

by
O. Reynolds, BSRA

- PART III -

If the lines in Fig. 8 are drawn with their centers on the same horizontal level as shown in Fig. 9 the movements of the pendule become more complex.

Fig. 9 shows only the principal fields and pendule movements in them. The field in which the pendule movement is parallel to line 3-4 is bounded by lines C to 3, 3 to 4, and 4 to D. Along lines GD, GC, HE and HF there is no movement of the pendule. This holds true along their entire length.

In the area bounded by A-1-B there seems to be a number of forces operating, the pendule swing varying with a slight change of position. At point H there is no movement of the pendule, the forces appearing to be balanced at this point. The balance of the figure should be easily read.

Fig. 10 shows two parallel lines one inch long drawn one inch apart. Along lines AB and CD there is no movement of the pendule except when held on the center line CL and at the point where the dotted lines cross. At this point the swing is toward points 1-4, changing to swing to points 2 and 3. Between E and F the swing is parallel to lines 1-2 and 3-4.

If we draw a line from 1 to 3 and another line from 2 to 4 we form a square which is the first closed figure of the group.

Fig. 11 shows the motions of the pendule in and around the square. Inside the square and near any of its sides the movement is parallel to the side near which it is held. In the center of the square the movement is parallel to two opposite sides, changing to swing parallel to the other two sides.

When held along a line running diagonally across the square from one corner to the diagonally opposite corner, the pendule is motionless, as though there were two opposite forces of somewhere near equal strength acting upon it. This line is very critical and extends outside the square. Outside the square the motion is similar to the movements shown in Fig. 3, being parallel to the sides

A study of this figure may throw some light on the way in which a force is collected and thrown off by a square pyramid. It also may show a partial explanation of some of the interference

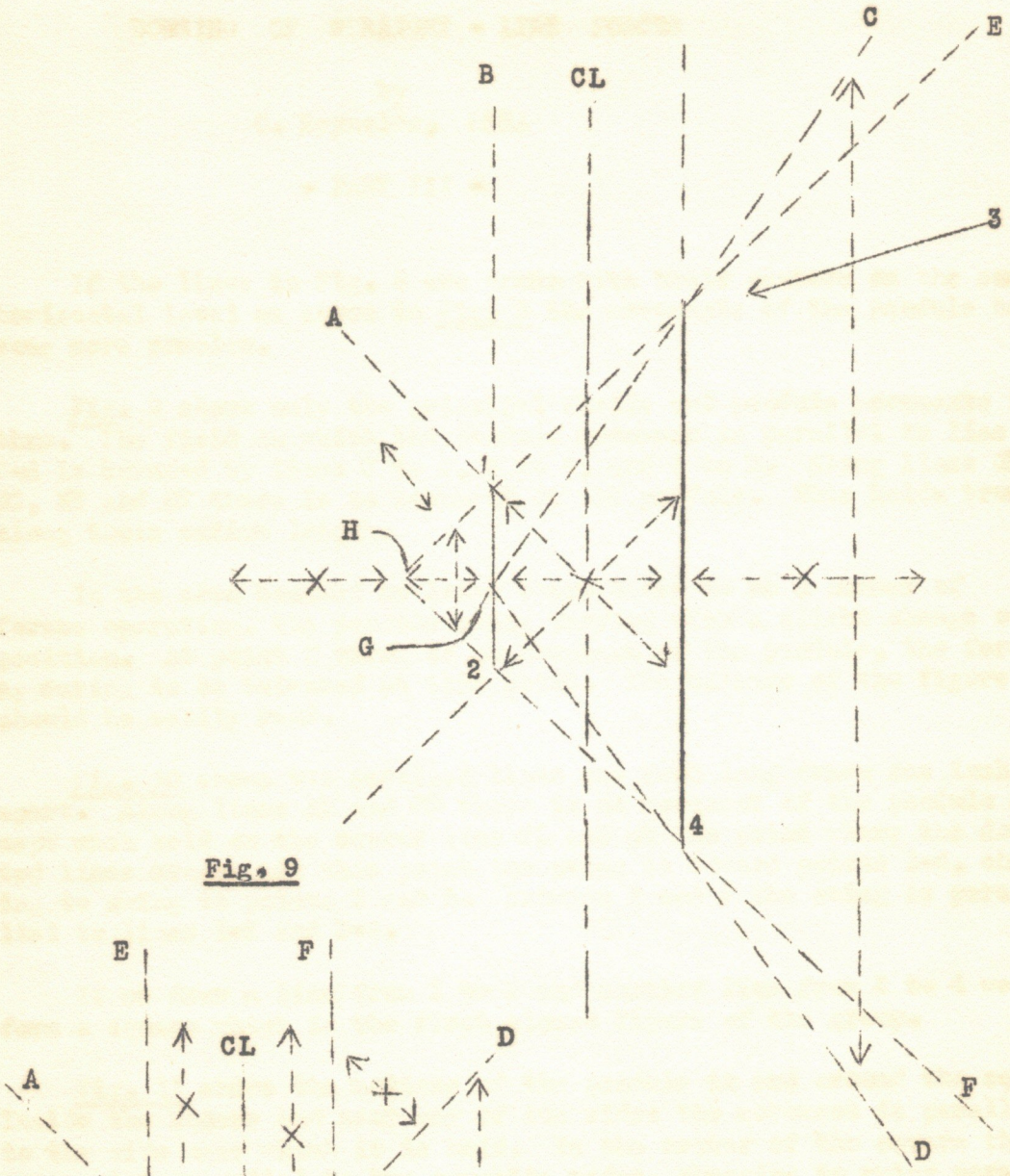

Fig. 9

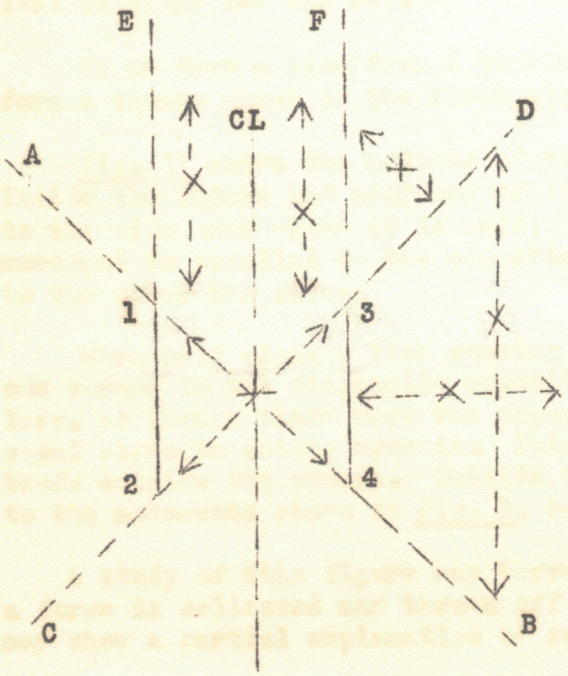

Fig. 10

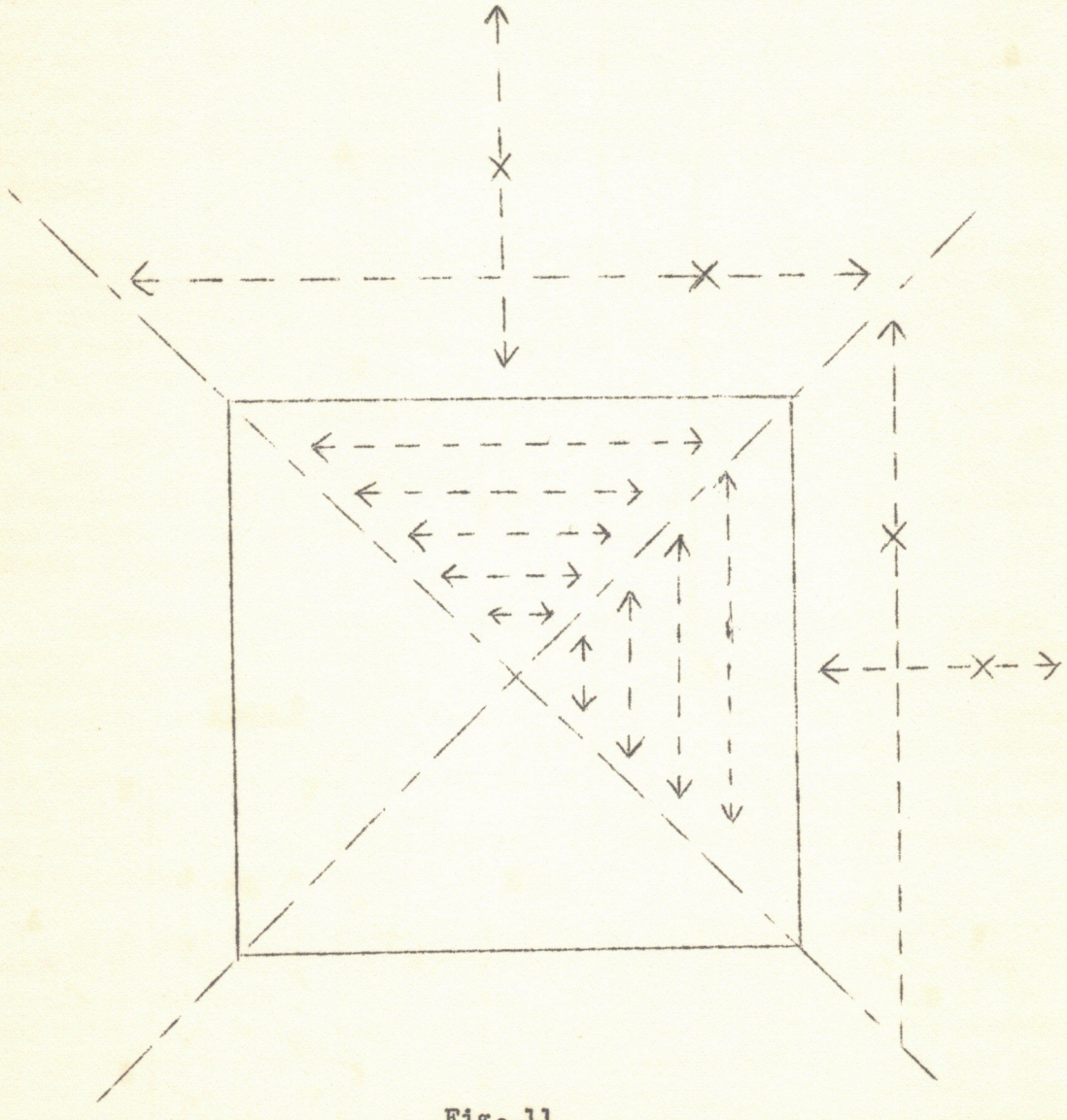

Fig. 11

experienced when square ruled paper is used in connection with a radio biometer or a Brunler biometer.

In all of the figures shown only the basic forces surrounding the figures are shown. This is done by having two identical figures, one on which the dowsing is done while the movements of the pendule are drawn on the other figure. If the movements of the pendule are marked on the same figure on which the dowsing is performed we build up a picture of the form that is determined by the position of the force centers that are represented by the lines and the points of the figure.

As an example let us take two parallel lines close together and hold the pendule between them. We find that the pendule swings back and forth between the two lines at an angle of about 45 degrees. We draw these lines in the figure, omitting the arrow heads for clarity and to prevent them from affecting the movement of the pendule. This is shown in Fig. 12. By exploring the ends of this figure we find on one end a number of diagonal movements of the pendule that end at a point on an extension of the center line of the figure and at a distance from the end of the figure equal to approximately one-half the length of the two parallel lines. These diagonal lines are drawn on the figure.

By exploring the opposite end of the figure we find the pendule swings in an egg-shaped motion which we draw on the figure. We then explore the oval and we find four places inside the oval where the pendule circles and we draw them on the figure as we have found them. We also find that there is a straight back and forth movement between the two smaller circles as well as straight back and forth swings outside the small end of the oval. These latter swings point to the end of the straight line inside the oval so we draw them on the oval. The completed figure is shown in Fig. 13.

As a last experiment, let us take an equilateral triangle or take only three dots representing the points of the triangle. The result is the same in either case. The procedure is the same as in the experiment just given. When the pendule is held over the center of the triangle, we find it swings in an egg-shaped oval and this is drawn over the triangle. This is shown in Fig. 14. By exploring the triangle and oval we obtain various movements of the pendule which we draw on the figure. The resulting figure is shown in Fig. 15. Exploring may be started at any point inside the oval, as the results are the same regardless of where the exploring starts or the order in which the movements of the pendule are drawn in the figure. It is interesting to note that the pendule movement on the ovals and the and the circles representing the eyes and nostrils is in opposite directions, clockwise for one side of the face and counter-clockwise for the opposite side of the face.

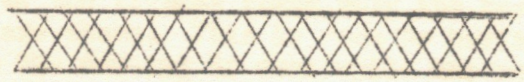

Fig. 12

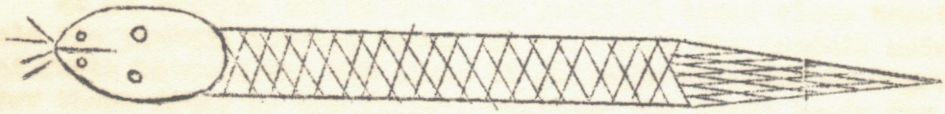

Fig. 13

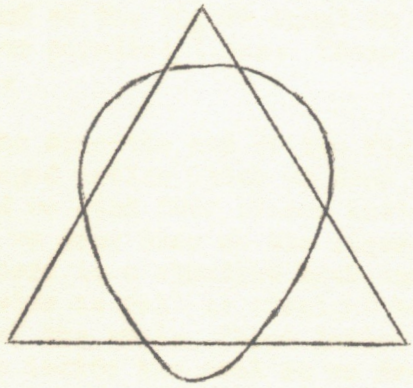

Fig. 14

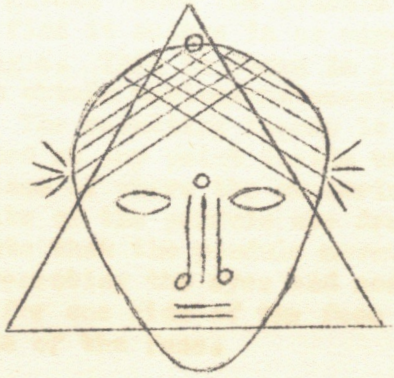

Fig. 15

The small circle between and slightly above the eyes as well as the slightly larger circle at the top of the head represent two psychic centers with which students of mystical and occult subjects are very familiar.

There are other movements of the pendule when held outside the oval, those above the top of the head and those beneath the chin being especially interesting.

There are a great number of experiments that can be performed with geometrical figures if one has the interest and the patience to perform them.

The dowser who is interested in this form of dowsing will do well to take it up. There is much to be learned from it and he will be well paid for his efforts.

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Wanted: Copy of PHYLOS (A Dweller on Two Planets) dated before 1900, Will pay $10.00, or owner state price. BSRA Hdqrs.

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"The Coming Of The Guardians"; Third mimeo printing now available. About one third of the text has been rearranged and some 40 pages added; about 100 pages in all. Consists mainly of statements by the Mark Probert Controls concerning the nature of the aeroforms (UFO).

The only satisfactory and inclusive interpretation ever offered. The first two printings were sold at $3.00 but we hage had to advance the price of this third issue to $4.00.

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"Old Religions Made New"; by Lincoln Phifer, 93 pages, pub. by the New World, 1918, now out of print; but through the courtesy of the autor's son, we have a few copies at BSR Hdqrs for sale at $1.00 each.

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"The Greatest Puzzle Of All": by Clarkson Dye. An excellent first book for newcomers to Spiritism - 70 pages, price $1.00

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